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of

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Application Number	10/757,778
Filing Date	01/15/2004
First Named Inventor	Watts et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	P80/MII-40-22-03

[illegible]

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P80/MII-40-22-03

NO TRANSLATION

3/14/00

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/757,778
				Filing Date	01/15/2004
				First Named Inventor	Watts et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	3	of	4	Attorney Docket Number	P80/MII-40-22-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JW	A30	COWIE, "Polymers: Chemistry and Physics of Modern Materials," 1991, pp. 408-409, 2 nd Ed, Chapman and Hall, a division of Routledge, Chapman and Hall, Inc., 29 West 35 th Street, NY, NY 10001-2291.	
JW	A31	KRUG et al., "Fine Patterning of Thin Sol-Gel Films," Journal of Non-Crystalline Solids, 1992, pp. 447-450, vol. 147 & 148.	
JW	A32	Krauss et al., "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography," Appl. Phys. Lett 67(21), 3114-3116, 1995	
JW	A33	CHOU et al., "Imprint of Sub-25 nm Vias and Trenches in Polymers," Applied Physics Letters, November 20, 1995, pp. 3114-3116, vol. 67(21).	
JW	A34	CHOU et al., "Imprint Lithography with 25-Nanometer Resolution," Science, Apr. 5, 1996, pp. 85-87, vol. 272.	
JW	A35	HAISMA et al., "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," Journal of Vacuum Science and Technology, Nov/Dec 1996, pp. 4124-4128, vol. B 14(6).	
JW	A36	CHOU et al., "Imprint Lithography with Sub-10nm Feature Size and High Throughput," Microelectronic Engineering, 1997, pp. 237-240, vol. 35.	
JW	A37	SCHEER et al., "Problems of the Nanoimprinting Technique for Nanometer Scale Pattern Definition," Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3917-3921, vol. B 16(6).	
JW	A38	XIA et al., "Soft Lithography," Annu. Rev. Mater. Sci., 1998, pp. 153-184, vol. 28.	
JW	A39	XIA et al., "Soft Lithography," Agnew. Chem. Int. Ed., 1998, pp. 550-575, vol. 37.	
JW	A40	COLBURN. et al., "Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning", Proc. of SPIE, 1999, pp. 379-389, vol. 3676.	

Examiner Signature		Date Considered	2/14/00
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				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	4	of	4	Attorney Docket Number	P80/MII-40-22-03

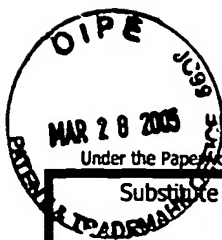
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JW	A41	CHOU et al., "Lithographically-Induced Self Assembly of Periodic Polymer Micropillar Arrays," Journal of Vacuum Science and Technology, Nov/Dec 1999, pp. 3197-3202, vol. B 17(6).	
JW	A42	CHOU, "Nanoimprint Lithography and Lithographically Induced Self-Assembly," MRS Bulletin, July 2001, pp. 512-517.	
JW	A43	CHOI et al., "High Precision Orientation Alignment and Gap Control Stages for Imprint Lithography Processes," U.S. Patent Application 09/698,317, Filed with USPTO on October 27, 2000..	
JW	A44	CHOI et al., "Method and System of Automatic Fluid Dispensing for Imprint Lithography Processes," U.S. Patent Application 09/908,455, Filed with USPTO on July 17, 2001.	
JW	A45	CHOI et al., "Methods for High-Precision Gap and Orientation Sensing Between a Transparent Template and Substrate for Imprint Lithography," U.S. Patent Application 09/920,341, Filed with USPTO on August 1, 2001.	
JW	A46	WATTS et al., "System and Method for Dispensing Liquids," U.S. Patent Application 10/191,749, Filed with USPTO July 9, 2002.	
JW	A47	SREENIVASAN et al., "Step and Repeat Imprint Lithography Systems," U.S. Patent Application 10/194,414, Filed with USPTO July 11, 2002.	
JW	A48	SREENIVASAN et al., "Step and Repeat Imprint Lithography Processes," U.S. Patent Application 10/194,991, Filed with USPTO July 11, 2002.	

Examiner Signature		Date Considered	3/14/04
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				APPLICATION NUMBER	10/757,778
				FILING DATE	01/15/2004
				FIRST NAMED INVENTOR	Watts et al.
				Group Art Unit	1732
				Examiner Name	Colaianne, Michael
				Attorney Docket Number	P80-22-03
Sheet	1	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

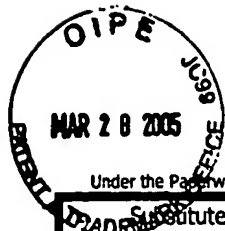
JW	D1	5,425,848		Haisma et al.	6/20/1995	
JW	D2	6,309,580	B1	Chou	10/30/2001	
JW	D3	6,696,220	B2	Bailey et al.	2/24/2004	
JW	D4	2004/0007799	A1	Choi et al.	1/15/2004	
JL	D5	2004/0021254	A1	Sreenivasan et al.	2/5/2004	
JW	D6	2004/0021866	A1	Watts et al.	2/5/2004	
JL	D7	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
JL	D8	2002/0177319	A1	Chou	11/28/2002	
JW	D9	6,713,238	B1	Chou et al.	3/30/2004	
JW	D10	2004/0008334	A1	Sreenivasan et al.	1/15/2004	
JW	D11	2004/0009673	A1	Sreenivasan et al.	1/15/2004	
JW	D12	2004/0124566	A1	Sreenivasan et al.	7/1/2004	
JW	D13	6,646,662	B1	Nebashi et al.	11/11/2003	
JW	D14	6,776,094	B1	Whitesides et al.	8/17/2004	
JW	D15	6,518,189	B1	Chou	2/11/2003	
JL	D16	2002/0132482	A1	Chou	9/19/2002	
JL	D17	2002/0167117	A1	Chou	11/14/2002	
JW	D18	6,482,742	B1	Chou	11/19/2002	

Examiner Signature		Date Considered	3/14/04
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

APPLICATION NUMBER	10/757,778
FILING DATE	01/15/2004
FIRST NAMED INVENTOR	Watts et al.
Group Art Unit	1732
Examiner Name	Colaianne, Michael
Attorney Docket Number	P80-22-03

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
JU	D19	2003/0080471	A1	Chou	5/1/2003	_____
JU	D20	2004/0036201	A1	Chou et al.	2/26/2004	_____
JU	D21	2004/0192041	A1	Jeong et al.	9/30/2004	_____
JU	D22	6,828,244	B2	Chou	12/7/2004	_____
JU	D23	6,809,356	B2	Chou	10/26/2004	_____
JU	D24	2004/0197843	A1	Chou et al.	10/7/2004	_____
JU	D25	2004/0156108	A1	Chou et al.	8/12/2004	_____
JU	D26	2004/0137734	A1	Chou et al.	7/15/2004	_____
JU	D27	2004/0131718	A1	Chou et al.	7/8/2004	_____
JU	D28	2004/0118809	A1	Chou et al.	6/24/2004	_____
JU	D29	2004/0046288	A1	Chou	3/11/2004	_____
JU	D30	2003/0080472	A1	Chou	5/1/2003	_____
JU	D31	2003/0034329	A1	Chou	2/20/2003	_____
JU	D32	2002/0042027	A1	Chou et al.	4/11/2002	_____
JU	D33	6,580,172	B2	Mancini et al.	6/17/2003	_____
JU	D34	4,512,848		Deckman et al.	4/23/1985	_____
JU	D35	6,517,995	B1	Jacobson et al.	2/11/2003	_____
JU	D36	2004/0110856	A1	Young et al.	6/10/2004	_____

Examiner
SignatureDate
Considered

3/14/06

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JW	D41	WO	00/21689		Chou et al.	4/20/2000		
	D42	JP	02-92603		Kurikawa et al.	4/3/1990		
	D43	JP	02-24848		Kamio	1/26/1990		
JW	D44	WO	01/47003		Steiner et al.	6/28/2001		
JW	D45	WO	02/07199		Chou	1/24/2002		
JW	D46	WO	2004/114016		Chou et al.	12/29/2004		
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JW	D49	WO	03/079416		Chou	9/25/2003		
JW	D50	WO	03/099536		Chou et al.	12/4/2003		

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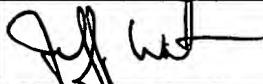
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PROVIDED

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				FIRST NAMED INVENTOR	Watts et al.
				Group Art Unit	1732
Sheet 5 of 6				Examiner Name	Colaanni, Michael
				Attorney Docket Number	P80-22-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

JW	D51	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001	
JW	D52	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
JW	D53	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
JW	D54	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
JW	D55	Translation of Japanese Patent 02-92603	
JW	D56	Translation of Japanese Patent 02-24848	
JW	D57	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Vol. 417, (June 2002), pp. 835-837, 6/1/2002	
JW	D58	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996	
JW	D59	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

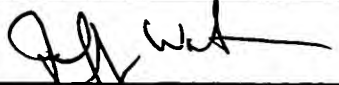
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/757,778
				FILING DATE	01/15/2004
				FIRST NAMED INVENTOR	Watts et al.
				Group Art Unit	1732
				Examiner Name	Colaianne, Michael
Sheet 6 of 6				Attorney Docket Number	P80-22-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

JL	D60	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
JL	D61	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
JL	D62	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
JW	D63	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

Examiner Signature		Date Considered	3/14/06
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				Application Number	10/757,778
				Filing Date	01/15/2004
				First Named Inventor	Watts et al.
				Group Art Unit	1762
				Examiner Name	Michael Colaiaanni
				Attorney Docket Number	P80-22-03
Sheet	1	of	1		

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Examiner Signature		Date Considered	3/14/06
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STATEMENT BY APPLICANT**

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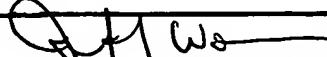
Sheet 1 of 1

Complete if Known

Application Number	10/757,778
Filing Date	01/15/2004
First Named Inventor	Watts et al.
Art Unit	1732
Examiner Name	Colaanni, Michael
Attorney Docket Number	P80-22-03

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JG	E1	US- 5,487,127	01-23-1996	Gronet et al.	
JG	E2	US- 6,048,654	04-11-2000	Nakayama et al.	
JG	E3	US- 6,483,083-B2	11-19-2002	Sakurai et al.	
JG	E4	US- 6,319,321-B1	11-20-2001	Hiraga et al.	
JG	E5	US- 5,155,336	10-13-1992	Gronet et al.	
JG	E6	US- 4,511,602	04-16-1985	Margerum et al.	
JG	E7	US- 6,495,802-B1	12-17-2002	Maltabes et al.	
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		Country Code ² Number ³ Kind Code ⁴ (if known)	MM-DD-YYYY			

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